

multiControl series

Web-Interface



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1. System requirements

Every JavaScript and CSS supporting browser is able to access the web interface.

The web interface is tested under Windows 7/8/10 and internet browsers in their latest version at the time of delivery (MS Internet Explorer, Mozilla Firefox and Google Chrome).

The FTP server is only supported by Windows own official FTP clients (command line, Internet Explorer or Windows Explorer) as well as under Linux FTP client (command line). Browser implementations are not working.

2. General Note

Close all pages of system configuration before restarting the central unit! Restarting makes buffered information in the browser obsolete and saving afterward leads to unwanted side effects.

3. Troubleshooting

Avoid opening several web pages of one system at the same time. It is not possible to configure two different parameters (e.g. final circuits) parallel.

For FTP connection to the multiControl, program the IP address of the client as "gateway" in the network configuration of the multiControl!

[Menue → Configuration → Administration → Network].

Increasing write accesses to the file system affects negatively to the access time and overall performance of the multiControl.

4. Administration Area

Login

At the change from the user area to the administration area (through the link at the administration page) a login via browser is necessary. The login data are:

username: user

password: password is variable*

* Please get in contact with your distributor.

5. System

**Sicherheitsbeleuchtung
Emergency lighting**

overview test results maps administration

miniControl plus: LPS > administration > system

save system reload

system no.	system name	location	contact person/ phone	master/ slave
12378	LPS			master
	9 circuits			

function test capacity test (duration: 60 min) cancel test cancel warm-up

reset errors

operating mode

off (charging) operational **operational** ● BAS switch: ○ IOM1.E1: ○ MCT: ○ ○ ○

On this page is the configuration of the fundamental system parameters.

Input fields:

- System name
- Location (3 rows)
- Contact person
- Phone
- System type [master, the slave with or without battery]
- Amount of final circuits (only displayed, the number of final circuit results from detected electric circuit modules)

For input fields, the following applies:

- For each input field, the entries transfer consecutively to the system after escaping the input field (via the TAB key or clicking into another input field).
- Only after pressing the „Save system“-button all system configurations are saved.
- Reloading pages before saving will result in the loss of all changes.
- Attention when using special characters and vowel mutation

It is possible to initiate the following actions:

Function test:

- Triggering a function test.
- Colored quadrants visualize the test progress.
- A link to the test results appears at the end of the test.

Capacity test:

- Triggering a capacity test.
- Colored quadrants visualize the test progress.
- A link to the test results appears at the end of the test.

Save system:

- The "save system" button saves the changed settings in the system configuration.

There are more links to administrative pages:

- Substation
- Subdistribution
- All circuits
- Circuits
- Tests
- Maps
- Timer
- SAM
- IOM
- E-Mail
- Options
- Battery monitoring

6. Subsystems

**Sicherheitsbeleuchtung
Emergency lighting**

overview test results maps configuration administration

multiControl plus : Test MC 12377 > administration > subsystems

save system reload

ip addresses slaves inter-system communication

slave	ip address	connection to subsystem	cumulative error
1	<input type="text" value="192.168.005.027"/>	<input type="button" value="monitor"/>	<input type="button" value="forward"/>
2	<input type="text" value="192.168.005.028"/>	<input type="button" value="monitor"/>	<input type="button" value="forward"/>
3	<input type="text"/>	<input type="button" value="do not monitor"/>	<input type="button" value="do not forward"/>

On this page, the configuration of the monitored substations takes place.

Input fields:

- inter-system communication: off, on
- IP address of the monitored substations
- Connection to subsystem: monitor, do not monitor
- Cumulative error: forward, do not forward

Actions:

- save system
- reload

7. Subdistribution

The screenshot shows the 'Sicherheitsbeleuchtung Emergency lighting' web interface. The navigation menu includes 'overview', 'test results', 'maps', 'configuration', and 'administration'. The breadcrumb trail is 'multiControl plus : Test MC 12377 > administration > subdistribution'. There are 'save' and 'reload' buttons at the top. The configuration is divided into two sections: 'UV 1: (TSC-UV HW:2 SW:3)' and 'UV 2: (UVC1 HW:9 SW:5)'. Under UV 1, there are input fields for 'position' (UV 01), 'local mains input U_L' (activated), and four CCIF fields (MB UV-01 KK 1 to 4). Under UV 2, there is a 'position' field (UV 02).

On this page, the configuration of subdistributions takes place.

Input fields:

UV 1 (only MCVU-E):

- Position Plain text which appears in case of failure in the LC-display of the main system
- Local mains input U_L: off, activated
- CCIF 1.1 – 1.4 Plain text which appears in case of an open quiescent current loop in the LC-display of the main system

UV 2 (only conventional MCVU)

- Position Plain text which appears in case of failure in the LC-display of the main system

Actions:

- save
- reload

8. Final circuits

overview test results maps administration

miniControl plus: LPS > administration > circuits

circuit: (K3) 3 save circuit reload circuit

circuit parameters (DCM 32 HW:0 SW:0)

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">circuit number</th> <th style="width: 25%;">number of lamps</th> <th style="width: 25%;">position</th> <th style="width: 25%;">operating mode</th> </tr> <tr> <td>3</td> <td>20</td> <td></td> <td>maintained light</td> </tr> </table>	circuit number	number of lamps	position	operating mode	3	20		maintained light	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">stop delay</th> <th style="width: 25%;">supply duration</th> <th style="width: 25%;">circuit monitoring</th> <th style="width: 25%;">current reference value</th> </tr> <tr> <td>1 min</td> <td>∞</td> <td>current window : off</td> <td>0 W reset</td> </tr> </table>	stop delay	supply duration	circuit monitoring	current reference value	1 min	∞	current window : off	0 W reset
circuit number	number of lamps	position	operating mode														
3	20		maintained light														
stop delay	supply duration	circuit monitoring	current reference value														
1 min	∞	current window : off	0 W reset														

circuit SAM

	SAM / MC-LM	input	operating mode
	---	---	---
	---	---	---
	---	---	---
	---	---	---
	---	---	---
	---	---	---

lamps

lamp no.	type	illuminant	position	ordering no.	lamp symbol	map
1	other	other			maintained light	
2	other	other			maintained light	
3	other	other			maintained light	

On this page, configuring of the operational parameter of a respective final circuit and the connected luminaires takes place.

Please observe the following:

- Switching to the settings of the next final circuit without saving leads to the loss of the prior settings
- After changing the number of luminaires, saving the settings and reloading the page afterward is necessary before the configuration of the changed luminaires is possible

Input fields (circuit parameters):

- circuit: Shows the actual configured final circuit and allows to switch among the other final circuits
- circuit number: If additional or different circuit numbering is required, these can be configured/adapted via the circuit number. The adapted circuit number is additionally shown in the test results
- number of lamps: Set the number of lamps in the final circuit
- position: Allocate a plaintext of the position of the circuit (e.g., 1st-floor, building 1)
- operating mode: Set the operating mode of the final circuit (maintained light (at DCM12E - ELS), standby light or off)
- stop delay: manual switch back, 1 min, 2min, ..., 15min
- supply duration: ∞, 3min, 4min, ..., 8h
- circuit monitoring: current window: off, 5%, 10%, 20%, 50%
- current reference value: reset button (the reset needs a save of the system)
- circuit SAM: -, 1, ..., 16
- input: -, 1, ..., 8; MC-LM; TLS1, TLS2
- operating mode: maintained light, non-maintained light, switchable light

Input fields lamps:

- type
- illuminant
- position
- ordering number
- lamp symbol: maintained light, non-maintained, maintained (CM*), non-maintained (CM*), off
- map: Selection of the stored building plan, where the luminaires appear See visualization

*CM: circuit monitoring

Actions:

- save circuit
- reload circuit (leads to the loss of all unsaved configurations)

9. Tests

function tests

interval	time	Warm-up luminaries
Sunday, after 21 days ▼	12:00 hh.mm	5 minutes ▼
	total current	current window
total current monitoring	.9.5 A	off ▼

next test: 2019-03-10, 12:00:00.

capacity tests

date	time	test duration (hours)
manual	manual	15min ▼
01.01	00:00 hh.mm	off ▼
01.04	00:00 hh.mm	off ▼
01.07	00:00 hh.mm	off ▼
01.10	00:00 hh.mm	off ▼

Under the menu "tests" is the configuration of the test interval for the automatic function test. It is possible to program the start time of four capacity tests including their test duration time.

Note: Observe the applicable regulations on site, whether an automatic executed capacity test is permitted.

Input fields function test:

- Interval: daily, every other day, weekly, every two weeks, every three weeks, every four weeks, each with weekday
- Time
- Total current monitoring*
- Current windows: off, $\pm 5\%$, $\pm 10\%$, $\pm 20\%$, $\pm 50\%$
- Warm-up luminaires: off, 5min, 30min

*unnecessary at circuit monitoring or single luminaire monitoring

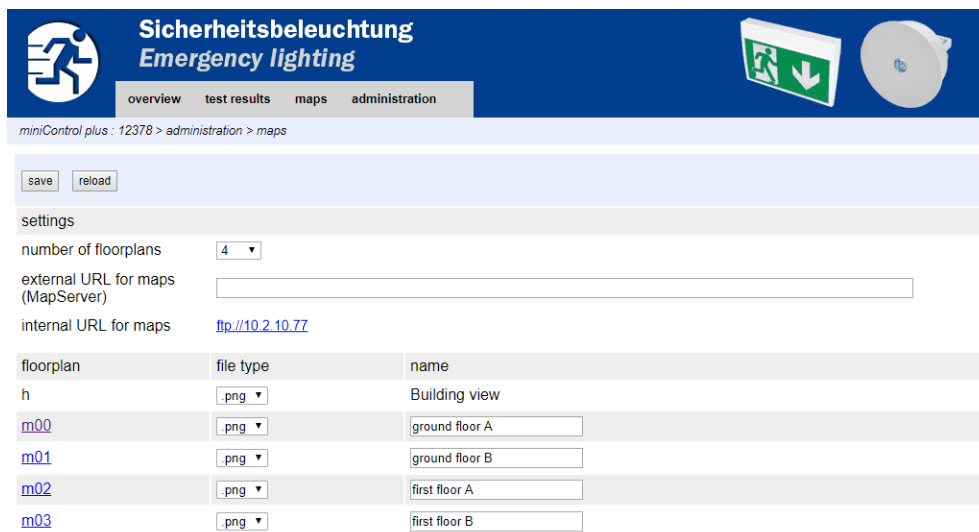
Four input fields capacity test:

- Date
- Time
- Test duration time (hours): deactivated, 5 min, 15 min, 30 min, 45 min, 1 h, 75 min, 90 min, 105 min, 2h, 135 min, 150 min, 165 min, 3h, 4h, 5h, 6h, 7h, 8h

Actions:

- save circuit
- reload circuit

10. Maps



The menu "maps" shows an overview of all via FTP uploaded maps in the file system. Possible graphics formats are ".png, .jpg, .svg, or .gif". Each file must not exceed a maximum file size of 150kb. It is possible to discard a maximum of 10 maps in a proper format. Observe the following name scheme: m00.xxx, m01.xxx, ..., m10.xxx. "xxx" stands for the suffix of the used graphics format (.png, .jpg, .svg, or .gif).

Every map can be assigned a name, which appears in the pick list in the final-circuit configuration of each luminaire. A graphic with the name "h.xxx" appears on the right side of this menu (e.g. an exterior view of the building).

Note: Do not forget to save after every change, use therefore the "save" button. Even a save in the menu "administration > maps" is necessary. Disregarding will result in loss of changes.

Input fields:

- Every map in the file system can be assigned a name, which will be saved automatically

Actions:

- Specify how many maps are in the file system by using the button "number of floorplans"
- Apply the file type to each map

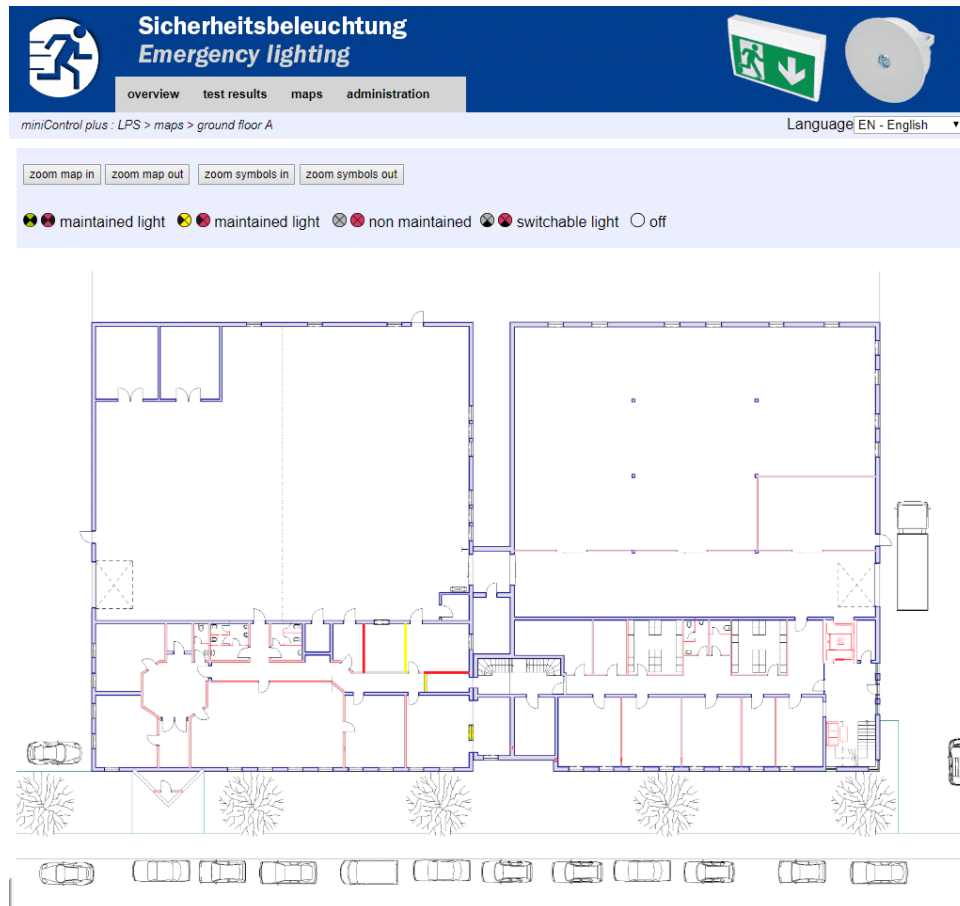
Links:

- The link "internal URL for maps" leads to the FTP-server of the multiControl plus. Once the Internet Explorer is open, click on View and then on "open FTP site in file explorer" to open the FTP-directory in the Windows Explorer. Files are via Drag&Drop exchangeable. After new files are copied in the file system it is necessary to press "reload" to read in the new files before it is possible to edit them. For every map on the file system, a link, which leads to the visualization, is created.

Note: Write graphics formats in lower cases!

m00.gif ✓
m00.GIF X

11. Visualization






Via Drag&Drop the luminaires can be placed on the respective map (selection in the circuit configuration).

Actions:

- zoom map in
- zoom map out
- zoom symbols in
- zoom symbols out
- save

12. Timer


Sicherheitsbeleuchtung
Emergency lighting



overview test results maps administration

miniControl plus : 12378 > administration > timer

timer	state	circuits		time		weekday		date	
		from	until	on	off	from	until	from	until
1	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
2	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
3	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
4	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
5	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
6	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
7	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
8	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
9	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
10	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
11	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12
12	inactive	(K1) 1	(K13) 13	00:00	00:00	Monday	Sunday	01.01	31.12

Up to 32 timers are programmable.

32x input fields [Timer]:

- timer control (all timers) active/inactive
- state [active, inactive]
- circuits from [selection field final circuit]
- circuits until [selection field final circuit]
- time on (time when the circuits switches on)
- time off (time when the circuits switches off)
- weekday from [selection field weekday]
- weekday until [selection field weekday]
- date from
- date until

Actions:

- save
- reload

13. SAM / MC-LM

The screenshot shows the 'Sicherheitsbeleuchtung Emergency lighting' web interface. The header includes a logo, navigation tabs (overview, test results, maps, configuration, administration), and icons for an emergency exit sign and a light fixture. The breadcrumb trail reads 'multiControl plus : Test MC 12377 > administration > SAM'. Below the breadcrumb are 'save' and 'reload' buttons. The main content area is a table with columns 'input', 'text', and 'function'. The table is titled 'SAM 1 (SAM24)' and contains 8 rows, each representing an input (E1-E8) with a corresponding text field (SAM 1 E1-SAM 1 E8) and a 'lamp switching' dropdown menu.

input	text	function
SAM 1 (SAM24)		
E1	<input type="text" value="SAM 1 E1"/>	lamp switching ▾
E2	<input type="text" value="SAM 1 E2"/>	lamp switching ▾
E3	<input type="text" value="SAM 1 E3"/>	lamp switching ▾
E4	<input type="text" value="SAM 1 E4"/>	lamp switching ▾
E5	<input type="text" value="SAM 1 E5"/>	lamp switching ▾
E6	<input type="text" value="SAM 1 E6"/>	lamp switching ▾
E7	<input type="text" value="SAM 1 E7"/>	lamp switching ▾
E8	<input type="text" value="SAM 1 E8"/>	lamp switching ▾

Up to 16 switch scanning modules (SAM/MC-LM) are programmable:

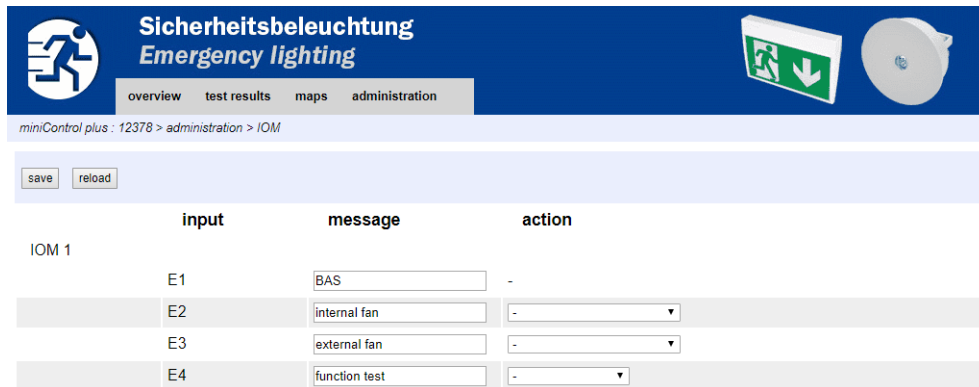
Input fields:

- SAM No. [1, ..., 16] Selection of the respective SAM module
- 8 inputs fields, with up to 21 characters, for plain text for all switching inputs of each module (MC-LM only one switching input/only mains monitoring)

Actions:

- save
- reload

14. IOM



Up to 5 IO-modules (IOM) are programmable:

Actions:

E2/E3

- message on E = 0
 - message and fault on E = 0
 - message on E = 1
 - message and fault on E = 1
 - fan failure K6 on E = 0
 - fan failure K6 on E = 1
 - fan failure on E = 0
 - fan failure on E = 1
- } through IOM1 K6 switched fan
- } Permanent fan

E4

- run function test
- shutdown circuits
- -

myControl plus

- E1 -/BAS/EPO (emergency power off)
- E2 message on E = 0
message and fault on E = 0
- E3 -
- E4 -

15. User area

15.1.Homepage / compact overview of the system with substations

http://IP_ADRESSE_MULTICONTROL

miniControl plus : LPS > compact list

Language EN - English

Click on a lamp symbol next to a system to show a detailed status information for this system

● o.k. ○ not available ● error

system	system name	circuit	state
master	LPS	● 9 circuits	● operational


The homepage of the web interface gives an overview of the state of the system and all substations. Monitoring of the substations requires that the IP addresses of these are entered in the respective page of configuration. In the navigation bar, the language of the web interface is changeable.

The following languages are available:



- CZ - Cesky
- DE - Deutsch
- DK - Danks
- EN - English
- FR - Francais
- HR - Hrvatski
- NO - Norsk
- PL - Polski
- SE - Svenska
- SK - Slovencina
- RU - Russian

The change of the language only affects the web interface. The language of the menus and options at the LC-display stays unchanged, but these are changeable directly via the LC-display. Through the link "detailed list" or state, a detailed overview of the system and the substations is available. The link "compact list" shows up the short overview.

15.2. Detailed overview of the system and the substations



Sicherheitsbeleuchtung
Emergency lighting

overview
test results
maps
configuration
administration

Language: EN - English

multiControl plus : Test MC 12377 > detailed list

Click on a lamp symbol next to a system to show a detailed status information for this system

● o.k.
 ○ not available
 ✖ error

system : Test MC 12377

system no.: 12377	time:	11:09:53	time (RTC):	●
type: multiControl plus (master)	date:	2019-03-07	battery:	○
location:	state:	operational	power line failure:	●
	power line voltage (L1-L2-L3):	230.0 V, 230.0 V, 230.0 V	battery power while on power line:	●
	charging current:	0.0 A	maintenance voltage out of range:	●
	battery capacity:	3 Ah	deep discharge battery:	●
	battery voltage:	245.0 V	hardware failure:	●
contact person:	battery center voltage:	122.5 V	cumulative error:	●
phone:	battery temperature:	20.0 °C	loading system failure:	●
	system temperature:	30.5 °C	total current:	●
	42 circuits	●	earth fault test:	●

A detailed overview of the operation parameters.

Additionally, to the detailed overview, the following is shown in the state:

fault memory
 empty

capacity test from 2012-09-06 10:12:58

circuits:	9	lamps:	0
faulty circuits:	0	faulty lamps:	0
battery voltage:	237.9 V	battery temperature:	22.0 °C
battery power:	-0.5 A		

circuit / circuit number					lamps			
K	state	DS / BS	SAM	position	1 - 5	6 - 10	11 - 15	16 - 20
1	1	●	D					
2	2	●	D					
3	3	●	D					
4	4	●	D					

MC Web-Interface - 2019-03_Rev. 03 – STS en

Subject to technical and editorial changes.

15.3. Display of the test results of a specific date






overview
test results
maps
administration

miniControl plus: LPS > test results > capacity test from 2012-09-06

<< capacity tests >>

Click on a lamp symbol to show more test results of this lamp

● o.k. ○ not available ✖ error

system 1: LPS


system no.: 12378	time:	10:12:58
type: miniControl plus (master)	date:	2012-09-06
location:	duration:	3 h
	battery capacity:	17 Ah
	battery power:	-0.5 A
	battery voltage:	237.9 V
	battery voltage (Ende):	226.8 V
contact person:	battery center voltage:	113.5 V
phone:	system temperature:	31.0 °C
	battery temperature:	22.0 °C
	earth fault test:	●
	total current:	●



[alarm list](#)

circuit / circuit number	lamps			
state position	1 - 5	6 - 10	11 - 15	16 - 20
K				

The displayed test data refer to the current system configuration. Older test results with another system configuration are not displayed if the last circuit was changed (=less).

15.4. Overview of the circuits



overview
test results
maps
administration

miniControl plus: LPS > circuits


Click on a lamp symbol next to a circuit to show a detailed status information for this circuit

● o.k. ○ not available ✖ error

circuit / circuit number	state	power (W)	type	operating mode	position
K1 1	● / ● 5 lamps	25 W (25 W)	DCM 32	maintained light	_____
K2 2	● / ● 7 lamps	47 W (45 W)	DCM 32	maintained light	_____
K3 3	● / ● 3 lamps	20 W (21 W)	DCM 32	maintained light	_____
K4 4	● / ● 5 lamps	25 W (25 W)	DCM 32	maintained light	_____

15.5. Overview of the luminaires of a circuit






overview test results maps administration

miniControl plus: LPS > circuit (K1) 1 >

[<< previous circuit](#) [next circuit >>](#)

● o.k. / on ○ not available / off ✘ fault

module	parameter	state
type	DCM 32	fault / communication ●
circuit	K1	earth fault ●
circuit number	1	fuse ●
	power (W)	25 W (25 W) ○
	Overload	●


SAM / MC-LM	address	input	operating mode	state
	—	—	—	○
	—	—	—	○
	—	—	—	○
	—	—	—	○
	—	—	—	○
	—	—	—	○



Click on a lamp symbol to show a detailed status information for this lamp

● o.k. ○ not available ✘ error

lamp	position	test	operating mode	type
------	----------	------	----------------	------

15.6. Overview of a luminaire



overview test results maps administration

miniControl plus: LPS > circuit (K1) 1 > lamp 1 >

[<< previous lamp](#) [next lamp >>](#)

Click on a test result symbol to show the daily results of the whole system

● o.k. ○ not available ✘ error

operating mode	maintained light
type	other
illuminant	other
position	ground floor A
ordering no.	

manual tests

2012-09-06	09:48:29	✘
2012-09-06	09:46:34	●
2012-09-06	09:24:50	●

capacity tests

2012-09-06	10:12:58
------------	----------

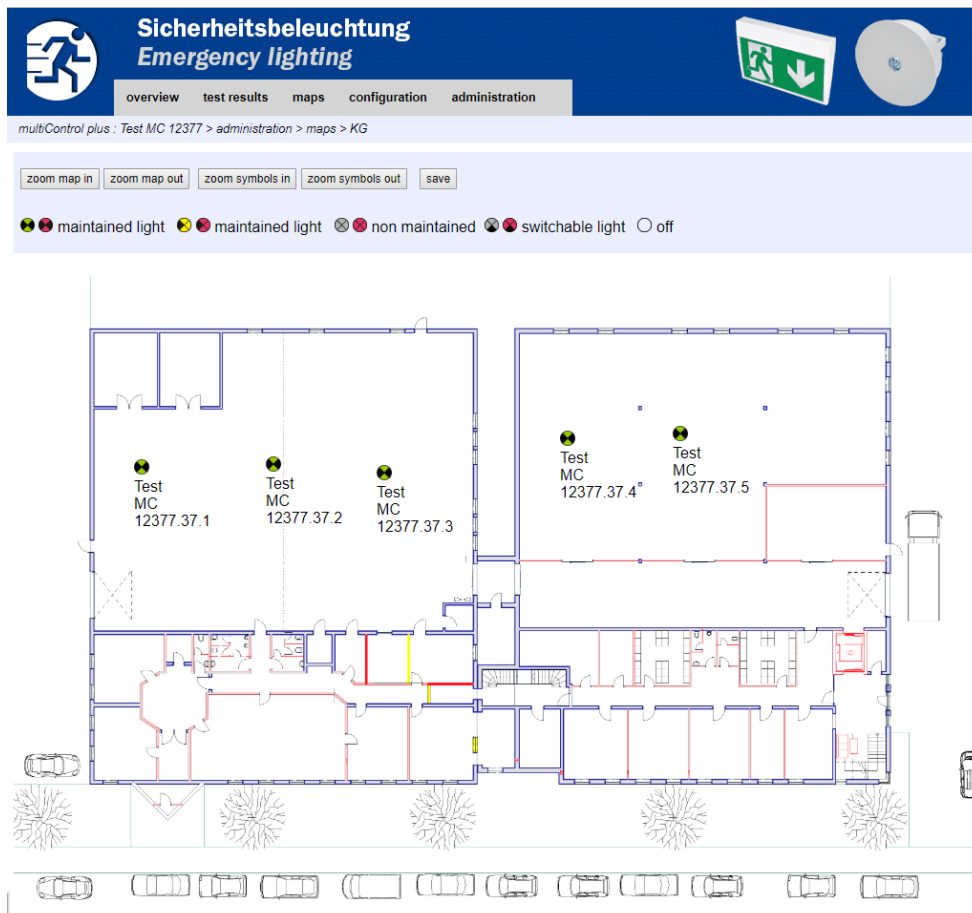
function tests

15.7. Display of all maps

http://IP_ADDRESS_MULTICONTROL/plan.html



15.8. Display of a map with entered luminaires



16. FTP-access

ftp://IP_ADDRESS_MULTICONTROL

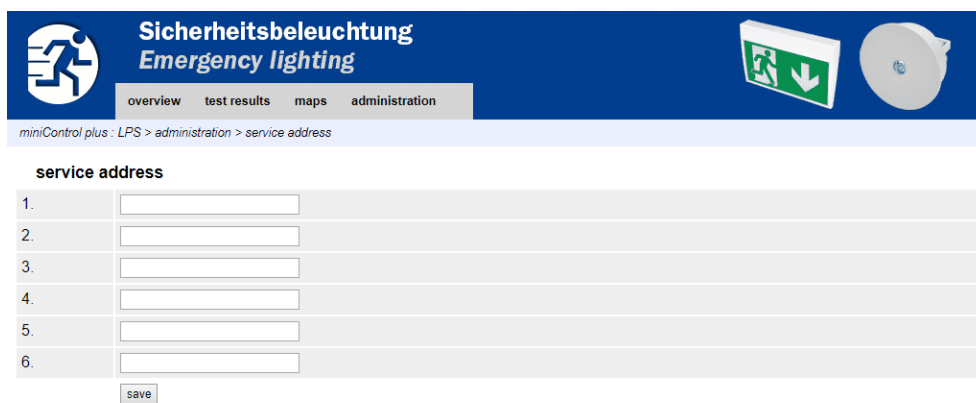
Username: **user**

Password: **(Password is variable)**

Tested FTP-clients are Windows command line-, Explorer-, and Internet Explorer FTP-client, as well as Linux command line FTP-client. The FTP-client of Mozilla Firefox is not supported.

17. Customer support

17.1. Service address



Sicherheitsbeleuchtung
Emergency lighting

overview test results maps administration

miniControl plus: LPS > administration > service address

service address

1.	<input type="text"/>
2.	<input type="text"/>
3.	<input type="text"/>
4.	<input type="text"/>
5.	<input type="text"/>
6.	<input type="text"/>

save

http://IP_ADDRESS_MULTICONTROL/admin/service.html

It is possible to change the service address, which is linked and displayed in the system overview.

17.2. Displayed flashfilesystem / download data

Anzahl der Dateien: 18

[timer.cfg](#)

[bat_logg.cfg](#)

[bat_set.cfg](#)

[iom_sam.cfg](#)

[circuit_02.cfg](#)

[circuit_03.cfg](#)

[circuit_04.cfg](#)

[mtests_000.tst](#)

[ctests.tst](#)

[Demo_Config.zip](#)

[uv.cfg](#)

[h.png](#)

[m00.png](#)

[m01.png](#)

[maps.cfg](#)

[system.cfg](#)

[system_2017.log](#)

[circuit_01.cfg](#)

http://IP_ADDRESS_MULTICONTROL/admin/backup.html

This page shows the content of the flash filesystem. Through the links, it is possible to download and save single files.

17.3. Information of the system configuration

http://IP_ADDRESS_MULTICONTROL/anlage_info.html

This page shows the configuration data of the system.

Datum:	2019-03-07
Uhrzeit:	11:33:32
Hersteller:	RP-Technik
Seriennummer:	12377
Hardware-Revision:	25
Software-Revision:	1186
MAC-Adresse:	00-1f-3e-00-30-59
Anlagentyp:	multiControl <i>plus</i>
Anzahl Stromkreise:	42
Wartung am:	2019-12-14
Aktiver Netzwerkanschluss:	Intern
IP Adresse intern:	10.2.10.77
Netzmaske intern:	255.255.0.0
Gateway intern:	10.2.10.1
DNS intern:	192.168.5.200
IP Adresse Front:	10.2.10.77
Netzmaske Front:	255.255.0.0
Gateway Front:	192.168.5.100
DNS Front:	192.168.5.200
Netzsystem:	TN System (DE) 50Hz
Netzspannung:	230.0 V, 230.0 V, 230.0 V offset: 0, 0, 0, 0 scale: 0, 0, 0, 0 failcntr: 0, 0, 0, 255
Batteriesystem:	OGIV 18 x 12V (Symmetrie: 9/18)
Batteriestrom:	0.0 A offset: -12 scale: 18
Batteriespannung:	245.0 V offset: 0 scale: -19
Batteriesymmetrie:	122.5 V offset: 0 scale: -18 max. deviation: 100
Batteriestromsensor:	50 A
Batterietemperatursensor:	20.0 °C 1 0
Internet-Konfigurationsbits (hex):	00
LCD Kontrasteinstellung in %:	20
Dateisystem:	
Sammelstoerung bei Netzausfall:	0
Sammelstoerung bei Mod-Bereit:	0
GLT Gateway:	0, 0, 0
XML Interface:	1
BAS:	Schalter:LB, IOM1.E1:LB, MCT1:LB, MCT2:LB, MCT3:LB,

Belegung der Anlage:

HW-Version

SW-Version

multiControl Serie

Web-Interface

Identification: MC Web-Interface - 2019-03_Rev. 03 – STS
Release date: 06.03.2019
Publisher: RP-Technik GmbH
Hermann-Staudinger-Straße 10-16, 63110 Rodgau
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